

# Daniel Montoya

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## Interests

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Biodiversity, community ecology, food webs, ecosystem functioning, stability, global change, restoration, agroecology

## Employment

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2021 – Present **Basque Center for Climate Change (BC3) & Ikerbasque Foundation, Spain** Research Associate  
2018 – 2021 **CNRS, France** Postdoc  
2015 – 2018 **CNRS & INRA, France** AgreenSkills+ Fellow  
2014 – 2015 **University of Bristol, UK** Postdoc  
2012 – 2014 **University of Bristol, UK** Marie Curie  
2010 – 2012 **University of Bristol, UK** Postdoc

## Education

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**PhD** Graduated Nov 2009 University of Alcala, Spain

Thesis: '*Space and Species: On the Relationships between Spatial Processes and Diversity Patterns in Trees*'. Advisors: Miguel A Zavala & Miguel A Rodríguez

Research placements during the PhD:

- Bradford A. Hawkins. Dept. of Ecology and Evolutionary Biology, University of California Irvine, USA
- Drew W. Purves & Steven Pacala. Dept. of Ecology and Evolutionary Biology, Princeton University, USA
- Drew W. Purves. Microsoft Research Cambridge, Cambridge, UK
- Guy Woodward. School of Biological and Chemical Sciences, Queen Mary College, University of London, UK
- Ricard V. Solé., University of Pompeu Fabra, Barcelona, Spain

**BSc** Environmental Sciences (2003) Universidad Autónoma, Spain  
Erasmus studentship at University of Bergen, Norway

## Grants and fellowships

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**Ramón y Cajal Fellowship** (2022-2026) BC3, Spain  
Funding: Ministry of Science & Technology (Spanish Government). Role: PI

**Ikerbasque starting grant** (2021-2023) BC3, Spain  
Funding: Ikerbasque Foundation (Basque Government). Role: PI

**AgreenSkills+ Project** (2015-2018) INRA & CNRS, France  
Provisioning and stability of multiple ecosystem services in agroecosystems  
Funding: EU AgreenSkills+ framework (European Commission). Role: PI

The goal is to offer new perspectives on farmland landscape management that better take into account the spatiotemporal dynamics of multiple ES, with two main aims: develop a theoretical framework of stability of multiple ES in heterogeneous landscapes, and study the ecological consequences of landscape management policies that take into account the stability of ES in addition to the magnitude in their provision.

**ERC project (2017-2022)**

CNRS, France

The combined effects of climatic warming and habitat fragmentation on biodiversity, community dynamics and ecosystem functioningFunding: European Research Council. Role: Research collaborator**NERC Project (2013-2017)**

University of Bristol, UK

Food webs at the landscape level: are we missing the wood for the trees?Funding: National Environment Research Council (NERC). Role: Research co-Investigator

Our aim is to determine how working at the wider scale of the landscape (defined as a mosaic of habitats) affects our understanding of the structure and functioning of ecological networks. Thus, are landscape webs simply the sum of their habitat webs, or do they have emergent properties that cannot be predicted from component webs?

**Project Grant (2016-2018)**

BC3, Spain

Estimating recovery time of temperate forests after anthropogenic impacts along a complexity gradientFunding: Spanish National Research Agency. Role: Research co-Investigator

This project investigates the recovery of species interaction networks after perturbations, i.e. mine abandonment. We quantify plant–mycorrhizal fungi–fungivorous insect networks along a chronosequence of the last 300 years (built using 14C and dendrochronology) within a mining area in Navarre (Northern Spain).

**Project Grant (2018-2020)**

BC3, Spain

Ecosystem recovery in ancient Norse settlements of GreenlandFunding: National Geographic Society. Role: Research co-Investigator

Experimental studies on ecosystem recovery are short term, but the recovery process may take much longer, as shown by paleo-ecological studies. In this project, we apply space-for-time substitutions to build chrono-sequences of the restoration of several components of biodiversity and functioning of degraded ecosystems. We use this approach to Old Norse settlements of South-west Greenland abandoned in c. 1450 AD. This pilot study aims to investigate changes in the structure and stability of plant-mycorrhizal-fungi networks in response to perturbations, in this case hay cropping, and after such perturbations ceased.

**BES Large Research grant (2014-2025)**

University of Bristol, UK

Does range expansion leave enemies behind? Butterfly pathogen and parasitoid communities in response to climate changeFunding: British Ecological Society. Role: PI

This project investigates how range shifts affect the enemy diversity (parasitoids and pathogens) of three UK butterflies that have expanded their range in the last decade in response to climate change. The interdisciplinary project, in collaboration with scientists and practitioners (Butterfly Conservation, Avon Wildlife Trust) brings together the fields of community ecology, climate change and metagenomics.

**ERC Project (2015-2020)**

CNRS, France

Biodiversity, stability and sustainability in spatial ecological and social-ecological systemsFunding: European Research Council. Role: Research collaborator

The goal is to develop a coherent body of new theory on the stability of ecosystems and coupled social–ecological systems and its relationships with biodiversity at multiple spatial scales that can inform empirical ecology, landscape management, and sustainable development. My role as collaborator is to contribute to advance our knowledge on the stability and synchrony of multiple ecosystem services in heterogeneous landscapes to provide new perspectives on the stability of food webs and on synergies and trade-offs between multiple ecosystem services across space.

**Project Grant (2014-2018)**

CNRS &amp; INRA, France

Viabilité et adaptation des écosystèmes productifs, territoires et ressources face aux changements globauxFunding: Association National pour la Recherche. Role: Research collaborator

The future of intensive farming systems in the context of global change is a considerable challenge: tomorrow's agriculture will have to deliver innovative solutions that are acceptable to civil society and produce sufficient food, while integrating environmental objectives in a global context of increasing uncertainty.

**SESYNC-iDiv Synthesis grant (2014-2015)**

SESYNC (USA) &amp; i-Div (Germany)

**Feedbacks between biodiversity and ecosystem functions and services during the recovery process of restored ecosystems after anthropogenic disturbance****Funding:** National Socio-Environmental Synthesis Centre (SESYNC) and the German Centre for Integrative Biodiversity Research (i-Div). **Role:** Research co-Investigator

This research will investigate the pattern and timing of recovery of both biodiversity and ecosystem functions and services in ecosystems following large-scale disturbances (agriculture, damming, eutrophication, hurricane/cyclones, invasive species, logging, oil spills, and overfishing).

**Marie Curie fellowship (2012-2014)**

University of Bristol, UK

**Ecological restoration in model communities****Funding:** European Commission (7th Framework Programme 2007-2012). **Role:** PI

The current, massive anthropogenic alteration of natural habitats is one of the main threats to global biodiversity. Ecological restoration is used to reverse this process, although the challenges involved in achieving this aim are widely recognized. While there has been some progress in gathering data appropriate to a firmer scientific footing, restoration ecology still lacks a general theory. The goal is to start to develop a general theory of ecological restoration as, without such theory, restoration will remain site and context specific, general rules will remain elusive and there will be no conceptual framework to extend as restoration practice develops.

**Spanish postdoc Project (2010-2012)**

University of Bristol, UK

**Models for ecosystem restoration****Funding:** Spanish Ministry of Science. **Role:** PI

The goal is to develop models to investigate the recovery of multispecies communities after human-induced perturbations.

**Project grant (2009-2012)**

University of Alcalá, Spain

**Ecological interactions and global change in mediterranean forests****Funding:** Spanish Ministry of Science. **Role:** Research collaborator

The general objective is the study of some ecological interactions within Mediterranean forest ecosystems, their consequences and how they may affect by Global Change. I participated in one subproject that focused on the role of regional patterns and local processes on the structure and dynamics of the Mediterranean forest in response to Global Change.

**Project grant (2006-2009)**

University of Alcalá, Spain

**Mediterranean forest dynamics in a scenario of global change****Funding:** Spanish Ministry of Science. **Role:** Research collaborator

The general objective of the project is to understand the dynamics of the Mediterranean forest under a global change scenario, using a multidisciplinary approach.

## Teaching

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**Biodiversity, biotic interactions and ecosystem services (summer school)**

Sept 2021 -

Universidad Pública de Navarra, Spain

**Master Biologie des Organismes, des Populations et des Ecosystèmes**

2020 -

Université Paul Sabatier, Toulouse, France

**Master Biodiversité, écologie et évolution Parcours ECONOMICS & ECOLOGY**

2019 -

CNRS - Université Paul Sabatier, Toulouse, France

**Science writing course**

2017 -

CNRS Moulis, France

<b>Tutor of 1st and 2nd year Biology students</b> University of Bristol, UK	2012-2014
<b>Simulation models in Ecology</b> University of Alcalá, Spain	2009-2010
<b>Non-linear dynamics in Ecology</b> University of Alcalá, Spain	2006-2007
<b>Student supervisor in field trips</b> University of Alcalá, Spain	2005-2006
<b>Statistical analysis of ecological data</b> University of Alcalá, Spain	2005-2006

## Student supervision

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**Field work ecology studies:** sampling methods and field work organization 2012-2014      University of Bristol, UK

*Student names:*

Sol Milne	Laura Graham	Sian De Bell
Joanne Morten	Amy Newman	Lewis Hiller
Beth Stevens	Naomi Terry	Victoria McNally
Alice Lawrence	Kees Wanders	Clara Montgomery
Alicia Hodson	Rayssa Motta do Nascimento	

**M. A. Villoslada** MsC Ecology 2007      University of Alcalá, Spain  
Project title: *'Allometric relationships in forest species of the Iberia Peninsula'*

**Fernanda Ribeiro** PhD research stay 2013      University of Bristol, UK  
Thesis title: *'The restoration of tropical seed dispersal networks'*  
Her stay at the University of Bristol (UK) yielded a publication for her thesis.

**Paloma Ruiz-Benito** PhD external supervisor 2013      University of Bristol, UK  
Thesis title: *'Patterns and drivers of Mediterranean forests structure and dynamics under global change: theoretical and management implications'*

**Asun Rodríguez-Uña** Research stay supervision 2020      BC3, Spain  
Thesis title: *'Estimating recovery time of temperate forests after anthropogenic impacts along a complexity gradient'*

**Chris McWilliams** PhD supervisor 2013-2016      University of Bristol, UK  
Thesis title: *'Habitat loss and species interactions: An in-silico investigation of the structure and dynamics of ecological communities'*  
The main chapter of his thesis was published in Nature Communications.

**New PhD supervision** 2021-      CNRS and Université Paul Sabatier, France

## Referee experience

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**Journal reviewer:** Nature Ecology & Evolution, Trends in Ecology & Evolution, Ecology Letters, Philosophical Transactions of the Royal Society of London, PLoS ONE, Oikos, Global Ecology & Biogeography, Global Change Biology,

Journal of Ecology, Journal of Animal Ecology, Functional Ecology, Journal of Biogeography, Restoration Ecology, Ecosistemas, Landscape Ecology, Ecography, Scientific Reviews, PLoS Computational Biology

**Review editor:** Journal of Animal Ecology, Frontiers in Ecology & Evolution

**Project referee:** British Ecological Society Review College; ANEP (National Agency for Scientific Evaluation, Spain) ; SNF (Swiss National Science Foundation)

**PhD jury:** Asun Rodríguez-Uña (June 2021)

## Memberships

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**British Ecological Society (BES)**  
**Société Française d'Écologie (SFE)**

## Invited speaking presentations

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<b>Spanish Terrestrial Ecology Association, National congress</b> Plasencia, Spain Oral presentation (keynote speaker)	Oct 2021
<b>Merging social, economic and ecological networks for sustainable and resilient food systems</b> Oral presentation, Online symposium	December 2020
<b>Swedish University of Agricultural Sciences</b> Uppsala, Sweden Oral presentation	Sep 2020
<b>EcoFlor meeting</b> Bilbao, Spain Oral presentation	Mar 2020
<b>World Biodiversity Forum</b> Davos, Switzerland Oral presentation in Special session: The Role of Biodiversity in Multifunctional Landscapes Oral presentation in Special session: Biodiversity and the multi-dimensionality of ecological stability	Feb 2020
<b>Agreenskills Annual Meeting</b> Edimburgh, UK Poster	Jun 2018
<b>Network-Area Workshop</b> CNRS Moulis, France Oral presentation	Dec 2017
<b>Agreenskills Annual Meeting</b> Paris, France Oral presentation	Feb 2017
<b>BC3 Basque centre for climate change</b> Bilbao, Spain Oral presentation	Apr 2015
<b>Society for Tropical Ecology</b> ETH Zurich, Switzerland Oral presentation	Apr 2015
<b>University of Queensland</b> Brisbane, Australia Oral presentation	Nov 2012

<b>Predictive life sciences networking event</b> Bristol, UK Oral presentation	May 2011
<b>Spanish natural history museum</b> Madrid, Spain Oral presentation	2009
<b>Queen Mary College</b> London, UK Oral presentation	2007
<b>Princeton University</b> Princeton, USA Oral presentation	2006

## Other conference presentations

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<b>4<sup>th</sup> International Symposium Ecological Networks</b> Paris, France Oral presentation	Sep 2019
<b>1<sup>st</sup> Meeting of the Iberian Ecological Society</b> Barcelona, Spain Oral presentation	Feb 2019
<b>BioStaSes Review meeting</b> Moulis, France Oral presentation	Mar 2018
<b>GDR TheoMoDiv</b> Paris, France Oral presentation	Oct 2017
<b>3<sup>rd</sup> International Symposium Ecological Networks</b> Uppsala, Sweden Oral presentation	Sep 2019
<b>EASYS SFE 'Ecology &amp; agriculture for young scientists'</b> CNRS Chizé Oral presentation	Mar 2017
<b>Société Française d'Écologie annual meeting</b> Marseille Oral presentation	Oct 2016
<b>2<sup>nd</sup> International Symposium Ecological Networks</b> Bristol, UK Co-Organizer	Sep 2019
<b>BES-SFE joint meeting</b> Lille, France Oral presentation	Dec 2014
<b>1<sup>st</sup> International Symposium Ecological Networks</b> Coimbra, Portugal Oral presentation	Oct 2013
<b>2<sup>nd</sup> International Symposium Ecological Networks</b> Bristol, UK Oral presentation	Sep 2019
<b>Society of Ecological Restoration International</b> Madison, USA Oral presentation	Oct 2013
<b>12<sup>th</sup> European Ecological Federation Congress</b> Ávila, Spain Oral presentation	Sep 2011
<b>Society of Ecological Restoration International</b> Mérida, México Special session organizer Oral presentation	Oct 2011

**Spanish Congress on Global Change** Madrid, Spain  
Poster

Apr 2007

## Impact / Outreach

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### Public activities

<b>Exposing science to school students</b> Ariège, France	2017-2019
<b>Science workshop</b> Moulis, France	Mar 2018
<b>Mainstreaming Biodiversity: Defining biodiversity</b> Bristol, UK	Oct 2014
<b>Bristol Researcher's Night</b> Bristol, UK	Sept 2014

### Research accessibility and articles in journals for a wider audience

I am committed to share my work with a broad audience. This is why *91% of my research is free to read online* (top 1% of researchers worldwide). Besides, I have contributed to scientific divulgation by writing articles in journals for a wider audience:

**Montoya D.** (2021). The impacts of climate change: From a butterfly's microbiome to food security. *Journal of Animal Ecology* (blog series about UN Climate Change Conference – COP26)

**Montoya, D.** (2019). *Ecosistemas* 28(2): 11-19.

**Montoya D.** (2009). *Revista Investigación y Ciencia* 390, 12-13.

**Montoya D.** (2008). *Communicative & Integrative Biology* 1:2, 146-147.

### Media impact

Some of my research has been subject of media attention in national and international press articles, as well as of national research magazines, online news and websites (e.g. Wikipedia) and international institutions (e.g. museums):

**McWilliams et al (2019) coverage:** The Conversation, Yahoo! News, Newswise, Foreign Affairs New Zealand, Phys.org, EurekAlert!, Science Daily, Long Room, Institut écologie et environment (french), Environmental News Network

**Jones et al (2018) coverage:** ScienceNewline, ScienceDaily, EurekAlert!, N-TV (german), Phys.org, IUCN. Recommended in F1000 Prime

**Meli et al (2017) coverage:** Firstpost., National Observer, SFGate, Seattle Post-Intelligencer, The Conversation. IUCN news of Meli et al (2017)

**Research mentioned in 5 Wikipedia articles!** (e.g. [Restoration Ecology](#) and [Frugivore](#) page)

**Montoya et al (2008) coverage:** RTVE, ABC, Diario Publico, UAH.es, SINC, Universia (spanish), EurekAlert!, EcoDiario, madri+d. Podcast Science, NASA and American Museum of Natural History

## Peer-reviewed Publications

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I have 33 publications, with 30 SCI articles including high-impact journals like *Science* (1), *Trends in Ecology and Evolution* (1), *Nature Communications* (3), *Nature Ecology & Evolution* (2), *Ecology Letters* (1), *Ecology* (4), *Proceeding of the Royal Society of London B* (2) or *Global Ecology & Biogeography* (1). These articles have received >2200 citations so far s/Google Scholar. My h index is 20, and with 92% of my publications included in the first quartile of the Ecology, Evolution, Behaviour & Systematics category in ISI Journal Citations Reports. Impact factor: Average = 7.53; Median = 5.18.

**Names of joint-first authors are underlined.**

## Scientific papers

- *In preparation*

**Montoya D.**, De Jong M. Warming-induced range expansion reduces complexity of the gut microbiome: a case study with three butterflies

Synodinos, A., Haegeman, B., **Montoya, D.**, Sentis, A., Montoya, J.M. Effects of temperature and dispersal on trophic metacommunities.

**Montoya D.**, Polimene, L., Montoya, J.M., Brunet, C et al. Microplastics impacts on the structure and functioning of marine microbial communities.

- *Under review*

Hackett T. D., Sauve A. M. C., Maia, K. P., **Montoya D.**, Davies, N., Archer, R., Potts S., Tylianakis, J. M., Vaughan I. & Memmott J. Multi-habitat landscapes are more diverse, more stable and have improved function.

- *Published*

1. Galiana, N., Lurgi, M., Bastazini, V.A.G., Bosch, J., Cagnolo, L., Cazelles, K., Claramunt-López, B., Emer, C., Fortin, M.-J., Grass, I., Hernández-Castellano, C., Jauker, F., Leroux, S.J., McCann, K., McLeod, A.M., **Montoya, D.**, Mulder, C., Osorio-Canadas, S., Reverté, S., Rodrigo, A., Steffan-Dewenter, I., Traveset, A., Valverde, S., Vázquez, D.P., Wood, S.A., Gravel, D., Roslin, T., Thuiller, W. and Montoya, J.M. Ecological network complexity scales with area. ***Nature Ecology & Evolution*** (In press)

2. **Montoya D.** (2021). The impacts of climate change: From a butterfly's microbiome to food security. ***Journal of Animal Ecology*** (blog series about UN Climate Change Conference – COP26)

3. **Montoya D.** (2021). Challenges and directions towards a general theory of ecological recovery dynamics: a metacommunity perspective. ***One Earth*** 4(8): 1083-1094

4. **Montoya D.**, Haegeman B., De Mazancourt, C. & Loreau, M. (In press). Habitat fragmentation and food security in crop pollination systems. ***Journal of Ecology*** 109(8): 2991-3006

5. Moreno-Mateos D., Alberdi A., Mörrien E., van der Putten, W., Rodríguez-Uña, A., **Montoya, D.** (2020). The long-term restoration of ecosystem complexity. ***Nature Ecology & Evolution*** 4: 676–685

6. **Montoya D.**, Gaba S., de Mazancourt C., Bretagnolle V. & Loreau M (2020). Reconciling biodiversity conservation, food production and farmers' demand in agricultural landscapes. ***Ecological Modelling*** 416: 108889.

7. Hackett, T., Sauve, A., Davies, N., **Montoya, D.**, Tylianakis, J. & Memmott, J. (2019). Reshaping our understanding of species roles in landscape-scale networks. ***Ecology Letters*** 22(9): 1367-1377.

8. **Montoya D.**, Haegeman B., Gaba S., De Mazancourt, C., Bretagnolle V. & Loreau M. (2019). Trade-offs in provisioning and stability of multiple ecosystem services in agroecosystems. ***Ecological Applications*** 29(2): e01853.

9. McWilliams, C., Lurgi, M., Montoya, J.M., Sauve, A. & **Montoya, D.** (2019). The stability of multitrophic communities under habitat loss. ***Nature Communications*** 10:2322.

10. **Montoya, D.** (2019). The restoration of ecological networks: Spatial and temporal scales, stability and global change. Special issue on Restoring interactions. ***Ecosistemas*** 28(2): 11-19.



11. Jones H.P., Jones P.C., Barbier E.B., Blackburn R.C., Rey Benayas J.M., Holl K.D., McCrackin M., Meli P., **Montoya D.** & Moreno-Mateos D. (2019). We agree with Larkin et al. 2019: restoration is context specific. **Proceeding of the Royal Society of London B** 286: 20191179.
12. Jones H. P., Jones, P.C., Barbier E.B., Blackburn R.C., Rey Benayas, J.M., Holl K.D., McCrackin M., Meli P., **Montoya D.** & Moreno-Mateos D. (2018). Restoration and repair of Earth's damaged ecosystems. **Proceeding of the Royal Society of London B** 285: 20172577.
13. Meli P., Holl K.D., Rey-Benayas J.M., Jones H.J., Jones P.C., **Montoya D.**, Moreno-Mateos D. (2017). A global review of past land use, climate, and active vs. passive restoration effects on forest recovery. **PLoS ONE** 12(2): e0171368.
14. Moreno-Mateos D., Barbier E.B., Jones P.C., Jones H.P., Aronson J., López-López J.A., McCrackin M.L., Meli P., **Montoya D.** & Rey-Benayas J.M. (2017). Anthropogenic ecosystem disturbance and the recovery debt. **Nature Communications** 8:14163.
15. Emer C., Memmott J., Vaughan I.P., **Montoya D.** & Tylianakis J.M. (2016). Species roles in plant– pollinator communities are conserved across native and alien ranges. **Diversity & Distributions** 22, 841-852.
16. Lurgi M., **Montoya D.** & Montoya J.M. (2016) The role of space and diversity of interaction types on the stability of complex ecological networks. Special Issue: Theory of Food Webs. **Theoretical Ecology** 9, 3-13
17. Ribeiro F., **Montoya D.**, Furtado R., Memmott J. Pizo, M.A. & Rodrigues R.R. (2015). The restoration of tropical seed dispersal networks. **Restoration Ecology** 23, 852-860
18. **Montoya D.**, Yallop M.L. & Memmott J. (2015). Functional group diversity increases with modularity in complex food webs. **Nature Communications** 6:7379
19. Russo L., Memmott J., **Montoya D.**, Shea K. & Buckley Y.M. (2014). Patterns of introduced species interactions affect multiple aspects of network structure in plant-pollinator communities. **Ecology** 95, 2953-2963.
20. Nenzen H., **Montoya D.** & Varela S. (2014). The impact of 850,000 years of climate changes on the structure and dynamics of mammal food webs. **PLoS ONE** 9(9): e106651.
21. **Montoya D.**, Rogers L. & Memmott, J. (2012). Emerging perspectives in the restoration of biodiversity-based ecosystem services. **Trends in Ecology and Evolution** 27, 666-672.
22. Alburquerque, F.S. Olalla-Tárraga M.A., **Montoya D.** & Rodríguez M.A. (2011). Environmental determinants of woody and herb plant species richness patterns in Great Britain. **Ecoscience** 18, 394-401.
23. **Montoya D.** Alburquerque F.S., Rueda M. & Rodríguez M.A. (2010). Species response patterns to habitat fragmentation: do trees support the extinction threshold hypothesis? **Oikos** 119,1335-1343.
24. **Montoya D.**, Purves D.W., Urbietta I.R. & Zavala M.A. (2009). Do Species Distribution Models explain spatial structure within tree species ranges? **Global Ecology & Biogeography** 18, 662-673.
25. Bini L.M et al (**Montoya** as mid author) (2009). Coefficient shifts in geographical ecology: an empirical evaluation of spatial and non-spatial regression. **Ecography** 32, 1-12.
26. **Montoya D.**, Zavala M. A., Rodríguez M. A. & Purves D. W. (2008). Animal versus wind dispersal and the robustness of tree species to deforestation. **Science** 320, 1502-1504.
27. **Montoya D.** (2009). Resistencia a la deforestación. Los beneficios de la dispersión de semillas por animales. **Revista Investigación y Ciencia** 390, 12-13.
28. **Montoya D.** (2008). Habitat loss, dispersal, and the probability of extinction of tree species. **Communicative & Integrative Biology** 1:2, 146-147.

29. **Montoya D.**, Rodríguez M. A., Zavala M. A., Hawkins B. A. (2007). Contemporary richness of Holarctic trees and the historical pattern of glacial retreat. **Ecography** 30, 173-182.
30. Hawkins B.A. et al (**Montoya** as mid author) (2007). A global evaluation of Metabolic Theory as an explanation for terrestrial species richness gradients. **Ecology** 88, 1877-1888.
31. Hawkins B. A., **Montoya D.**, Rodríguez M. A., Olalla-Tárraga M. A. & Zavala M. A. (2007). Global models for predicting woody plant richness from climate: comment. **Ecology** 88, 255-259.

### Book chapters and monographs

32. Zavala M. A., Montoya D., Benito-Garzon M. & Purves D. W. (2011). Principales determinantes de la distribución de las especies forestales ibéricas a diferentes escalas: efectos potenciales del cambio climático. In La evolución del paisaje vegetal y el uso del fuego en la cordillera Cantábrica (Ezquerro, F.J. & Rey, E., Coord., Junta de Castilla y León)
33. Lomas P. L., Martín, B., Louit, C., Montoya, D., Montes, C. & Alvarez, S. (2005). Guía práctica para la valoración económica de los bienes y servicios ambientales de los ecosistemas. Fundación Interuniversitaria González Bernáldez